CTS008 : VMware NSX: Install, Configure, Manage.

หลักการและเหตุผล:

This comprehensive, fast-paced training course focuses on installing, configuring, and managing VMware NSX™. This course covers NSX as a part of the software-defined data center platform, implementation use cases along with features of NSX, and functionality operating at Layer 2 through Layer 7 of the OSI model. Lecture and hands-on lab activities support the student's understanding of NSX features, functionality, and on-going management and control.

วัตถุประสงค์:

- Describe the software-defined data center
- Describe how NSX is the next step in the evolution of the software-defined data center
- Describe features and benefits of NSX network virtualization
- Identify prerequisites for NSX
- Configure and deploy NSX management, control, and data plane components
- Configure, deploy, and use logical switch networks
- Configure and deploy NSX distributed router to optimize East-West data center traffic flows
- Configure and deploy VMware NSX Edge™ services gateway appliances
- Configure and use NSX virtual private networks
- Configure and use logical load balancing
- Configure NSX Edge Firewall and Distributed Firewall policy rules
- Configure Service Composer security groups and policies
- Use role-based access to control user account privileges
- Use activity monitoring to validate and create security policies
- Describe how VMware vRealize™ Automation and NSX enable automated provisioning of IT services and networks

หลักสูตรนี้เหมาะสำหรับ:

Experienced system administrators that specialize in networking

ความรู้พื้นฐาน:

- System administration experience on Microsoft Windows or Linux operating systems.
- Understanding of concepts presented in the VMware Data Center Virtualization Fundamentals course for VCA-DCV certification.

เนื้อหาการอบรมสัมมนา:

Module 1 Course Introduction

- Introductions and course logistics
- Course objectives

Module 2 Software-Defined Data Center

- Describe the software-defined data center concepts
- Describe the evolution of the software-defined data center
- Discuss VMware vSphere® virtualization
- Describe network virtualization

Module 3 Networking Fundamentals

- Describe Ethernet switching fundamentals
- Describe the vSphere virtual networking
- Describe the vSphere distributed switches
- Identify the data center network topologies that are optimized for network virtualization

Module 4 Management and Control Planes

- Describe the role of VMware NSX Manager™ and VMware NSX Controller™
- Identify NSX Controller clustering best practices
- Deploy the NSX Manager instance and the NSX Controller cluster

Module 5 Logical Switch Networks

- Describe VXLAN protocol
- Identify VTEP functions
- Describe how NSX logical switches process Broadcast, Unknown unicast, and Multicast traffic
- Describe ARP suppression
- Compare unicast, multicast, and hybrid controller replication modes

Module 6 Distributed Logical Router

- Identify supported dynamic routing protocols
- Describe the role of the NSX logical router and NSX Edge gateway
- Diagram East-West and North-South traffic flows
- Describe the distributed logical router
- Describe the distributed logical router control virtual machine

Module 7 NSX Edge Routing and High Availability

- Describe the features of the NSX Edge services gateway
- Configure static and dynamic routing on NSX Edge
- Describe NSX Edge network address translation operation
- Describe NSX Edge one-arm and inline load balancing
- Compare NSX Edge high availability modes
- Scale and place NSX Edge appliances

Module 8 Virtual Private Networks

- Identify NSX VPN use cases
- Configure site-to-site IPsec VPNs
- Configure SSL VPNs for remote access
- Configure Layer 2 VPN

Module 9 Layer 2 Bridging

- Describe Layer 2 bridging between VXLAN and VLAN
- Describe the traffic flow between VXLAN and VLAN

Module 10 NSX Security

- Describe microsegmentation
- Compare NSX Edge and NSX Distributed Firewalls to traditional firewalls
- Configure NSX firewall policies
- Extend the functionality of NSX with Service Composer
- Configure security groups and security policies with Service Composer

Module 11 Operations

- Implement NSX role-based access control
- Analyze NSX flow monitoring data
- Create or modify firewall rules from NSX flow monitoring data

Module 12 Automation

- Describe VMware vRealize™ Orchestrator™
- Describe the vRealize Automation capabilities
- Describe how vRealize Automation and NSX interact

วิทยากร :

อาจารย์เอกฤทธิ์ ธรรมสถิต

- Microsoft Certified professional (MCP)
- Microsoft Certified Systems Administrator (MSCA)
- Microsoft Certified Systems Engineer (MSCE)
- Cisco Certified Network Associate (CCNA)
- Certificate of CompTIA Security+
- Certified Ethical Hacker
- Certified Wireless Network Administrator
- Certified Wireless Security Professional

จำนวนชั่วโมงในการฝึกอบรม : 5 วัน (30 ชั่วโมง)

ช่วงเวลาฝึกอบรม: 9.00 - 16.00 น.

สถานที่ฝึกอบรม :

สถาบันวิทยาการ สวทช.
เลขที่ 73/1 อาคารสำนักงานพัฒนาวิทยาศาสตร์และเทคโนโลยีแห่งชาติ (สวทช.)
ถนนพระรามที่ 6 แขวงทุ่งพญาไท เขตราชเทวี กรุงเทพฯ 10400

วิธีการการสำรองที่นั่ง :

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